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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,861	12/14/2001	Wei-Ge Chen	3382-61341	7175
26119	7590 10/06/2005		EXAMINER	
KLARQUIST SPARKMAN LLP			ARMSTRONG, ANGELA A	
121 S.W. SAI SUITE 1600	LMON STREET		ART UNIT	PAPER NUMBER
	PORTLAND, OR 97204			

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Common to	10/017,861	CHEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Angela A. Armstrong	2654				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D. (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 14 De	ecember 2001.					
<u> </u>	action is non-final.					
,—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-59</u> is/are pending in the application.	• •					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) <u>1-59</u> are subject to restriction and/or e	election requirement.					
Application Papers	·					
9) The specification is objected to by the Examiner	·	Evaminor				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex	animer. Note the attached Office	Action of form F10-132.				
Priority under 35 U.S.C. § 119	•					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
<ol> <li>Certified copies of the priority documents</li> </ol>	have been received.					
2. Certified copies of the priority documents have been received in Application No						
<ol><li>Copies of the certified copies of the prior</li></ol>	ity documents have been receive	ed in this National Stage				
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.				
Attachment(s)						
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) ☐ Notice of Informal P 6) ☐ Other:	atent Application (PTO-152)				
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## **DETAILED ACTION**

## Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-9, 10-16, and 29-30, drawn to quality measurement based on reconstructing blocks of spectral data as critical band in a quantization loop, classified in class 704, subclass 230.
- II. Claims 17-22 and 23-28, drawn to quality measurement based on data normalization, classified in class 704, subclass 224.
- III. Claims 31-35, drawn to quality measurement based on audio masking, classified in class 704, subclass 200.1.
- IV. Claims 36-42 and 43-54, drawn to quality measurement based on frequency band weights, classified in class 704, subclass 200.1.
- V. Claims 55-59, drawn to an apparatus for providing a multi-channel transform to multi-channel audio and determining signal quality, classified in class 704, subclass 500.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-IV and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as

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claimed because a plurality of audio quality measurement methods may be used in the channel mode dependent quality measurement apparatus. The subcombination has separate utility such as methods of determining audio signal quality in a plurality of environments.

Inventions I, II, III and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, inventions I, II, III, and IV each have separate utility such as audio quality measurement in single channel or other audio environments. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and the search required for each group is not required for the other groups restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Angela A. Armstrong whose telephone number is 571-272-7598. The examiner can normally be reached on Monday-Thursday 11:30-8:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Angela A Armstrong Examiner Art Unit 2654

AAA October 3, 2005

angela Amstrong